

Table HC9.6 Air Conditioning Characteristics by Climate Zone, 2005
Million U.S. Housing Units

Air Conditioning Characteristics	Housing Units (millions)	Climate Zone ¹				
		Less than 2,000 CDD and --				2,000 CDD or More and Less than 4,000 HDD
		Greater than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Less than 4,000 HDD	
Total.....	111.1	10.9	26.1	27.3	24.0	22.8
Do Not Have Cooling Equipment.....	17.8	3.2	4.7	3.6	5.5	0.9
Have Cooling Equipment.....	93.3	7.7	21.4	23.7	18.5	21.9
Use Cooling Equipment.....	91.4	7.6	21.0	23.4	17.9	21.7
Have Equipment But Do Not Use it.....	1.9	Q	0.4	0.4	0.6	0.3
Air-Conditioning Equipment^{2, 3}						
Central System.....	65.9	4.8	12.3	15.1	14.9	18.7
Without a Heat Pump.....	53.5	4.7	11.5	11.6	12.3	13.6
With a Heat Pump.....	12.3	Q	0.9	3.5	2.7	5.2
Window/Wall Units.....	28.9	3.1	9.3	8.8	4.0	3.7
1 Unit.....	14.5	2.1	5.0	3.6	2.4	1.4
2 Units.....	9.1	0.7	2.9	3.3	1.0	1.2
3 or More Units.....	5.4	0.3	1.5	1.9	0.6	1.1
Central Air-Conditioning.....	65.9	4.8	12.3	15.1	14.9	18.7
Housing Units Served by Central Air-Conditioning Equipment						
One Housing Unit.....	64.2	4.7	11.9	14.5	14.7	18.3
Two or More Housing Units.....	1.7	Q	0.4	Q	Q	0.4
Do Not Have Central A/C Equipment.....	45.2	6.2	13.7	12.2	9.0	4.1
Number of Rooms Cooled by Central Air-Conditioning in Summer 2005						
None.....	1.4	Q	0.3	Q	0.6	0.2
1.....	0.7	N	Q	Q	Q	Q
2.....	2.1	Q	0.5	0.4	0.5	0.5
3.....	7.5	0.4	1.4	1.3	2.0	2.4
4.....	7.9	0.4	1.2	1.8	1.9	2.6
5 or More.....	46.3	3.7	8.9	11.2	9.9	12.7
Proportion of Rooms Air-Conditioned						
None.....	1.4	Q	0.3	Q	0.6	0.2
Some, But Not All of the Rooms.....	8.4	0.7	1.8	1.6	2.4	1.9
All of the Rooms.....	56.1	4.0	10.2	13.2	12.0	16.6
Frequency of Central Air-Conditioner Use						
Never.....	1.4	Q	0.3	Q	0.6	0.2
Only a Few Times When Needed.....	11.4	1.7	3.1	2.3	3.5	0.9
Quite a Bit.....	12.6	1.6	3.3	2.8	2.9	2.0
All Summer.....	40.5	1.4	5.6	9.8	8.0	15.6
Age of Central Air-Conditioner Used by One Housing Unit						
Less than 2 Years.....	9.0	0.7	1.7	2.0	1.9	2.8
2 to 4 Years.....	11.0	0.8	2.2	2.2	2.2	3.7
5 to 9 Years.....	16.3	1.4	3.3	3.4	3.8	4.4
10 to 19 Years.....	16.8	1.4	2.9	4.2	4.4	3.9
20 Years or More.....	6.5	0.3	0.9	1.7	1.6	2.0
Don't Know.....	4.5	Q	1.0	0.9	0.8	1.5

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Used by Two or More Housing Units						
Less than 2 Years.....	Q	Q	N	N	N	Q
2 to 4 Years.....	Q	N	N	Q	N	Q
5 to 9 Years.....	0.3	Q	Q	Q	Q	N
10 to 19 Years.....	0.3	Q	Q	Q	Q	Q
20 Years or More.....	0.3	N	Q	Q	Q	Q
Don't Know.....	0.7	N	Q	Q	Q	Q
Household Pays for Electricity for Central Air-Conditioning						
Yes.....	63.6	4.7	12.0	14.2	14.5	18.2
No.....	2.3	Q	Q	0.9	0.4	0.5
Window/Wall Unit Air-Conditioning.....	28.9	3.1	9.3	8.8	4.0	3.7
Frequency Most-Used Unit Used						
Never.....	0.6	Q	Q	Q	Q	Q
Only a Few Times When Needed.....	12.1	1.5	4.2	3.8	1.7	0.9
Quite a Bit.....	7.5	1.0	2.6	2.1	0.9	0.9
All Summer.....	8.6	0.4	2.4	2.7	1.3	1.7
Age of Most-Used Unit						
Less than 2 Years.....	6.4	0.5	2.1	2.1	1.0	0.8
2 to 4 Years.....	7.8	0.9	2.6	2.3	0.8	1.1
5 to 9 Years.....	7.0	0.7	2.1	2.3	1.0	1.0
10 to 19 Years.....	3.7	0.3	1.2	1.1	0.6	0.5
20 Years or More.....	2.1	0.2	0.7	0.5	0.4	Q
Don't Know.....	1.8	0.3	0.6	0.6	0.2	Q
Household Pays for Electricity for Window/Wall Air-Conditioners						
Yes.....	26.1	2.7	8.5	7.8	3.8	3.2
No.....	2.2	Q	0.7	0.8	Q	0.3

1. One of five climatically distinct areas, determined according to the 30-year average (1971-2000) of the annual heating and cooling degree-days. A household is assigned to a climate zone according to the 30-year average annual degree-days for an appropriate nearby weather station.

2. In the 2005 RECS 1.5 million housing units reported having both central and window/wall air conditioners.

3. The number of housing units using air-conditioning includes a small, undetermined number of housing units where the fuel for central air-conditioning was some fuel other than electricity; these housing units were treated as if the air-conditioning fuel was electricity.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

N = No cases in reporting sample.

Notes: • Because of rounding, data may not sum to totals. • See Glossary for definition of terms used in these tables.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 2005 Residential Energy Consumption Survey.